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(54) **REFLECTION TYPE LIQUID CRYSTAL DISPLAY ELEMENT** COPYRIGHT: (C)1994,JPO

(57) Abstract:

**PURPOSE:** To provide a reflection type liquid crystal element which has high reflectance and by which dependency on a visual angle becomes small and which has a wide visual angle.

**CONSTITUTION:** A reflection type liquid crystal driving cell 20 carries out vertical orientation by arranging a liquid crystal layer 29 composed of nematic liquid crystal having negative dielectric anisotropy between upper and lower substrates 21 and 26. Orientation directions of liquid crystal particles of the upper and lower substrates 21 and 26 are made equal to each other, and tilt angles are made different from each other. A phase difference plate 22 having the optical axis 22a in the direction orthogonal to the orientation direction is arranged on the upper substrate 21 of this cell 20, and a single polarizing plate 23 is arranged on this phase difference plate. A retardation value of the phase difference plate 22 is set in 110 to 140nm.

